

# Motor Vehicle Transmission and Power Train Parts Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
336350, Motor vehicle transmission and power train parts manufacturing . . . . .	433	542	104 660	5 649 553	85 667	183 506	4 490 975	14 276 386	20 542 622	34 725 630	1 561 504
2002..	N	N	100 637	5 363 984	80 344	173 648	4 149 085	12 995 858	18 170 506	31 504 772	1 750 410
2001..	N	N	112 244	6 146 968	91 851	202 824	4 928 375	14 533 106	20 777 554	35 102 644	1 808 497
2000..	N	N	111 338	5 913 253	91 212	208 670	4 760 964	14 675 664	20 303 019	35 003 923	1 924 695
1999..	N	N	102 538	5 182 986	84 641	192 923	4 118 730	11 807 095	18 948 620	30 515 993	2 247 349
1998..	N	N	100 605	4 982 175	82 810	184 487	3 965 743	11 916 802	18 166 804	30 105 923	1 876 751
1997..	427	522									

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>336350, Motor vehicle transmission and power train parts manufacturing</b>												
United States .....	—	542	260	104 660	5 649 553	85 667	183 506	4 490 975	14 276 386	20 542 622	34 725 630	'1 561 504
Arizona .....	—	12	4	208	7 920	130	276	3 784	19 892	14 937	34 465	'2 654
California .....	2	69	13	1 710	56 364	1 196	3 482	33 761	135 901	169 503	295 432	'5 338
Florida .....	4	13	1	128	5 190	105	199	3 737	12 250	9 642	22 044	'566
Illinois .....	—	29	13	2 774	127 164	2 224	4 821	89 535	350 039	250 992	597 498	'17 131
Indiana .....	—	42	32	21 078	1 334 581	16 293	36 373	1 011 140	3 294 642	3 690 736	7 001 620	'494 233
Michigan .....	—	67	50	28 615	1 794 716	25 080	54 725	1 561 842	4 059 526	6 210 164	10 223 647	'368 928
Minnesota .....	—	7	3	434	14 788	193	392	6 801	45 626	68 602	119 050	'1 296
Missouri .....	1	17	6	1 713	51 701	1 433	3 033	37 819	150 010	365 975	518 352	'15 280
Nebraska .....	—	3	2	403	12 308	331	733	9 396	79 203	64 453	143 217	'1 111
New Jersey .....	—	5	2	290	10 484	260	589	8 454	21 935	9 820	31 955	'627
North Carolina .....	—	27	19	6 019	240 985	4 673	12 066	163 911	928 284	1 417 396	2 340 649	'93 616
Ohio .....	2	41	28	17 925	891 589	14 885	27 411	716 858	2 035 690	3 379 000	5 360 111	'259 237
Oklahoma .....	—	10	6	1 345	42 553	1 024	2 244	27 366	121 075	131 975	241 666	'7 694
Oregon .....	—	6	2	349	15 400	261	409	10 668	54 721	39 101	94 222	'546
Pennsylvania .....	—	16	10	1 428	62 838	1 146	2 272	46 914	152 977	170 624	328 367	'13 669
South Carolina .....	—	14	11	2 754	95 408	1 995	3 983	56 791	266 272	517 809	783 258	'21 097
Tennessee .....	1	13	5	1 069	35 823	749	1 173	25 538	112 571	161 264	278 050	'5 727
Texas .....	1	22	4	562	18 992	407	700	10 419	50 786	43 508	94 499	'4 684
Virginia .....	—	10	6	1 374	62 516	1 089	2 489	42 921	165 883	603 462	773 193	'5 747
Wisconsin .....	—	14	6	793	30 014	643	997	21 744	113 876	20 301	133 735	'717

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>336350, Motor vehicle transmission and power train parts manufacturing</b>	
Companies <sup>1</sup> .....	number.. 433
All establishments <sup>2</sup> .....	number.. 542
Establishments with 1 to 19 employees .....	number.. 282
Establishments with 20 to 99 employees .....	number.. 110
Establishments with 100 employees or more .....	number.. 150
All employees <sup>3</sup> .....	number.. 104 660
Total compensation .....	\$1,000.. 7 732 009
Annual payroll .....	\$1,000.. 5 649 553
Total fringe benefits .....	\$1,000.. 2 082 456
Production workers, average for year .....	number.. 85 667
Production workers on March 12 .....	number.. 85 146
Production workers on May 12 .....	number.. 86 652
Production workers on August 12 .....	number.. 85 206
Production workers on November 12 .....	number.. 85 606
Production worker hours .....	1,000.. 183 506
Production worker wages .....	\$1,000.. 4 490 975
Total cost of materials .....	\$1,000.. 20 542 622
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 19 626 967
Resales .....	\$1,000.. 344 329
Purchased fuels .....	\$1,000.. 94 946
Purchased electricity .....	\$1,000.. 232 009
Contract work .....	\$1,000.. 244 371
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 5 056 514
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. S
Total value of shipments .....	\$1,000.. 34 725 630
Primary products value of shipments .....	\$1,000.. 32 267 846
Secondary products value of shipments .....	\$1,000.. 1 971 203
Total miscellaneous receipts .....	\$1,000.. 486 581
Value of resales .....	\$1,000.. 390 647
Contract receipts .....	\$1,000.. 5 506
Other miscellaneous receipts .....	\$1,000.. 90 428
Primary products specialization ratio .....	percent.. 94
Value of primary products shipments made in all industries .....	\$1,000.. 34 639 865
Value of primary products shipments made in this industry .....	\$1,000.. 32 267 846
Value of primary products shipments made in other industries .....	\$1,000.. 2 372 019
Coverage ratio .....	percent.. 93
Value added .....	\$1,000.. 14 276 386
Total inventories, beginning of year .....	\$1,000.. 2 008 988
Finished goods inventories .....	\$1,000.. 623 712
Work-in-process inventories .....	\$1,000.. 630 295
Materials and supplies inventories .....	\$1,000.. 754 981
Total inventories, end of year .....	\$1,000.. 2 177 865
Finished goods inventories .....	\$1,000.. 646 621
Work-in-process inventories .....	\$1,000.. 700 764
Materials and supplies inventories .....	\$1,000.. 830 480
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '17 149 892
Total capital expenditures (new and used) .....	\$1,000.. '1 561 504
Buildings and other structures (new and used) .....	\$1,000.. '183 968
Machinery and equipment (new and used) .....	\$1,000.. '1 377 536
Automobiles, trucks, etc., for highway use .....	\$1,000.. '10 357
Computers and peripheral data processing equipment .....	\$1,000.. '37 261
All other expenditures for machinery and equipment .....	\$1,000.. '1 329 918
Total retirements .....	\$1,000.. '1 271 692
Gross value of depreciable assets at end of year .....	\$1,000.. '17 439 704
Depreciation charges during year .....	\$1,000.. '1 089 047
Total rental payments .....	\$1,000.. 147 699
Buildings and other structures .....	\$1,000.. 59 567
Machinery and equipment .....	\$1,000.. 88 132
Total other expenses <sup>4</sup> .....	\$1,000.. 1 286 516
Response coverage ratio <sup>5</sup> .....	percent.. 91
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 265 133
Communications services <sup>4</sup> .....	\$1,000.. 25 580
Legal services <sup>4</sup> .....	\$1,000.. 10 560
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 6 254
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 49 011
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 71 613
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 19 358
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 24 431
Taxes and license fees <sup>4</sup> .....	\$1,000.. 55 150
All other expenses <sup>4</sup> .....	\$1,000.. 759 426

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
336350, Motor vehicle transmission and power train parts manufacturing											
All establishments .....	—	542	104 660	5 649 553	85 667	183 506	4 490 975	14 276 386	20 542 622	34 725 630	'1 561 504
Establishments with—											
1 to 4 employees .....	9	203	341	20 152	288	591	16 428	43 786	55 145	98 862	'2 967
5 to 9 employees .....	8	41	259	16 126	201	396	12 737	36 949	45 148	82 473	'2 297
10 to 19 employees .....	4	38	540	25 905	389	785	16 711	62 678	70 075	133 142	'5 282
20 to 49 employees .....	2	63	2 068	82 384	1 470	2 841	50 555	211 650	243 561	457 825	'9 882
50 to 99 employees .....	1	47	3 243	117 658	2 376	4 905	77 987	367 321	547 507	925 429	'45 251
100 to 249 employees .....	—	60	10 021	373 783	7 714	15 895	245 398	1 177 740	1 476 120	2 650 538	'79 838
250 to 499 employees .....	—	43	15 632	647 097	12 251	27 402	464 650	2 148 369	4 202 547	6 331 789	'372 354
500 to 999 employees .....	—	27	18 716	769 955	14 957	32 426	568 358	2 534 981	2 855 188	5 349 478	'157 820
1,000 to 2,499 employees .....	—	12	19 572	1 370 738	16 059	36 326	1 124 321	2 945 769	4 751 539	7 651 339	525 843
2,500 employees or more .....	—	8	34 268	2 225 755	29 962	61 939	1 913 830	4 747 143	6 295 792	11 044 755	'359 970
Administrative records <sup>4</sup> .....	9	225	598	37 027	509	1 059	30 283	79 657	101 405	180 867	'5 271

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
336350	Motor vehicle transmission and power train parts manufacturing .....	542	104 660	5 649 553	85 667	183 506	4 490 975	14 276 386	20 542 622	34 725 630	'1 561 504
3363501	Motor vehicle drive train components, new .....	226	95 701	5 334 759	78 601	167 643	4 272 298	13 526 658	19 803 513	33 255 416	'1 518 652
3363503	Motor vehicle drive train components, rebuilt .....	38	6 677	192 680	5 213	12 244	123 631	489 380	441 663	912 949	'27 491

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336350	Motor vehicle transmission and power train parts manufacturing .....	2002.. N	X	X	34 639 865
	1997.. N		X	X	30 504 019
3363501	Motor vehicle drive train components, new .....	2002.. N	X	X	33 342 115
	1997.. N		X	X	29 758 088
33635011	Car and light truck transmissions (except auxiliary and parts), new .....	2002.. N	X	X	10 540 350
	1997.. N		X	X	8 860 582
3363501101	Car and light truck manual transmissions (except auxiliary and parts), new .....	2002.. 17	X	X	1 565 098
	1997.. 17		X	X	417 879
3363501104	Car and light truck automatic transmissions (except auxiliary and parts), new .....	2002.. 21	X	X	8 975 252
	1997.. 17		X	X	8 442 703
33635012	Heavy truck and bus transmissions (except auxiliary and parts), new .....	2002.. N	X	X	3 128 681
	1997.. N		X	X	2 235 656
3363501207	Heavy truck and bus manual transmissions (except auxiliary and parts), new .....	2002.. 16	X	X	D
	1997.. 11		X	X	D
3363501211	Heavy truck and bus automatic transmissions (except auxiliary and parts), new .....	2002.. 15	X	X	D
	1997.. 7		X	X	D
33635013	Parts for manual and automatic transmissions, new .....	2002.. N	X	X	3 200 654
	1997.. N		X	X	1 919 508
3363501313	Parts for manual transmissions, new .....	2002.. 18	X	X	413 770
	1997.. 23		X	X	271 240
3363501316	Parts for automatic transmissions, new .....	2002.. 41	X	X	2 786 884
	1997.. 36		X	X	1 648 268
33635014	Motor vehicle axles and axle parts, new .....	2002.. N	X	X	10 921 057
	1997.. N		X	X	9 534 969
3363501435	Motor vehicle axles, new .....	2002.. 35	X	X	9 577 103
	1997.. N		X	X	N
3363501436	Motor vehicle axle parts, new .....	2002.. 25	X	X	1 343 954
	1997.. N		X	X	N
33635015	Other motor vehicle drive train components, except wheels and brakes, new .....	2002.. N	X	X	5 458 968
	1997.. N		X	X	7 108 158
3363501519	Motor vehicle transaxles, new .....	2002.. 9	X	X	240 976
	1997.. 9		X	X	1 421 567
3363501522	Motor vehicle clutch disc and facing assemblies, new .....	2002.. 21	X	X	746 784
	1997.. 28		X	X	778 212
3363501525	Motor vehicle gear shifters, new .....	2002.. 14	X	X	220 268
	1997.. 16		X	X	106 781
3363501528	Motor vehicle drive shafts, new .....	2002.. 25	X	X	1 997 720
	1997.. 20		X	X	1 512 203
3363501531	Motor vehicle universal joints, new .....	2002.. 10	X	X	182 340
	1997.. 11		X	X	464 926
3363501537	Motor vehicle wheel hubs, sold separately, new .....	2002.. 19	X	X	532 306
	1997.. 16		X	X	260 762
3363501541	Other motor vehicle drive train components, except wheels and brakes, new .....	2002.. 49	X	X	1 538 574
	1997.. 57		X	X	2 563 707
3363501Y	Motor vehicle drive train components, new, nsk .....	2002.. N	X	X	92 405
	1997.. N		X	X	99 215
3363501YVV	Motor vehicle drive train components, new, nsk .....	2002.. N	X	X	92 405
	1997.. N		X	X	99 215
3363503	Motor vehicle drive train components, rebuilt .....	2002.. N	X	X	885 814
	1997.. N		X	X	529 550
33635031	Motor vehicle drive train components, rebuilt .....	2002.. N	X	X	880 173
	1997.. N		X	X	529 550
3363503101	Motor vehicle clutch discs and pressure plates, rebuilt .....	2002.. 8	X	X	28 543
	1997.. 16		X	X	86 044
3363503104	Car and light truck automatic transmissions, including drive lines and axles, rebuilt .....	2002.. 16	X	X	668 746
	1997.. 21		X	X	277 263
3363503107	Car and light truck manual (standard) transmissions, including drive lines and axles, rebuilt .....	2002.. 5	X	X	D
	1997.. 5		X	X	10 130
3363503111	Heavy truck and bus transmissions, including drive lines and axles, rebuilt .....	2002.. 8	X	X	D
	1997.. 5		X	X	32 537
3363503114	Other transmission parts, including clutch and facing assemblies, gear shifters, universal joints, and wheel hubs, rebuilt .....	2002.. 7	X	X	46 549
	1997.. 10		X	X	46 751
3363503117	Other drive train parts and components, rebuilt .....	2002.. 12	X	X	59 833
	1997.. 17		X	X	76 825
3363503Y	Motor vehicle drive train components, rebuilt, nsk .....	2002.. N	X	X	5 641
	1997.. N		X	X	—
3363503YVV	Motor vehicle drive train components, rebuilt, nsk .....	2002.. N	X	X	5 641
	1997.. N		X	X	—
336350W	Motor vehicle transmission and power train parts manufacturing, nsk, total .....	2002.. N	X	X	411 936
	1997.. N		X	X	216 381
336350WY	Motor vehicle transmission and power train parts manufacturing, nsk, total .....	2002.. N	X	X	411 936
	1997.. N		X	X	216 381
336350WYWW	Motor vehicle transmission and power train parts manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	249 434
	1997.. N		X	X	98 656
336350WYWY	Motor vehicle transmission and power train parts manufacturing, nsk, for administrative-record establishments .....	2002.. N	X	X	162 502
	1997.. N		X	X	117 725

See footnotes at end of table.



Table 6a. **Products Statistics: 2002 and 1997—Con.**

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3363501	Motor vehicle drive train components, new	
	United States .....	2002.. 33 342 115
		1997.. 29 758 088
	Arizona .....	2002.. 27 417
		1997.. N
	California .....	2002.. 75 082
		1997.. 123 485
	Florida .....	2002.. 7 566
		1997.. 9 000
	Georgia .....	2002.. 88 966
		1997.. 126 759
	Illinois .....	2002.. 573 303
		1997.. 347 365
	Indiana .....	2002.. 6 953 619
		1997.. 6 150 958
	Michigan .....	2002.. 10 502 317
		1997.. 9 942 349
	North Carolina .....	2002.. 2 162 709
		1997.. 1 706 948
	Ohio .....	2002.. 4 757 709
		1997.. 5 166 033
	Oklahoma .....	2002.. 92 481
		1997.. 176 879
	Pennsylvania .....	2002.. 221 114
		1997.. 279 265
	South Carolina .....	2002.. 631 028
		1997.. 118 069
	Tennessee .....	2002.. 341 085
		1997.. 450 794
	Texas .....	2002.. 64 867
		1997.. 64 676
	Virginia .....	2002.. 761 882
		1997.. N
	Wisconsin .....	2002.. 105 749
		1997.. 165 534
3363503	Motor vehicle drive train components, rebuilt	
	United States .....	2002.. 885 814
		1997.. 529 550
	California .....	2002.. 127 604
		1997.. 28 024
	Michigan .....	2002.. 77 926
		1997.. 50 193

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336350	Motor vehicle transmission and power train parts manufacturing		
00900001	Total materials .....2002..	X	19 626 967
	.....1997..	X	17 415 342
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	2 348 132
	.....1997..	X	2 590 475
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	1 444 362
	.....1997..	X	1 533 356
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy).....2002..	X	D
	.....1997..	X	267 904
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	475 924
	.....1997..	X	585 776
33120016	Steel sheet and strip (including tinplate) .....2002..	X	167 687
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	604 830
	.....1997..	X	736 574
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	15 056
	.....1997..	X	12 908
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	149 142
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	N
33299101	Ball and roller bearings (mounted or unmounted) .....2002..	X	379 586
	.....1997..	X	N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	99 225
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	11 229
	.....1997..	X	8 596
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	26 680
	.....1997..	X	28 456
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets) .....2002..	X	53 786
	.....1997..	X	27 288
32622001	Rubber and plastics hose and belting .....2002..	X	D
	.....1997..	X	21 779
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses.....2002..	X	D
	.....1997..	X	D
32700035	Ceramic and ceramic composite parts, components, and accessories .....2002..	X	D
	.....1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	129 098
	.....1997..	X	113 884
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	N
	.....1997..	X	N
32552002	Glues and adhesives.....2002..	X	6 612
	.....1997..	X	N
00190003	Flexible packaging materials .....2002..	X	6 434
	.....1997..	X	5 130
32220015	Paper and paperboard containers .....2002..	X	27 491
	.....1997..	X	40 526
33632203	Starting motors for internal combustion engines .....2002..	X	D
	.....1997..	X	N
33632206	Ignition harness and cable sets for internal combustion engines .....2002..	X	D
	.....1997..	X	N
33632219	All other engine electrical equipment for internal combustion engines.....2002..	X	79 909
	.....1997..	X	N
33441500	Resistors for electronic circuitry .....2002..	X	D
	.....1997..	X	N
33441400	Capacitors for electronic circuitry .....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	D
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	531 788
	.....1997..	X	N
00999826	Core parts purchased for use in remanufacturing and rebuilding .....2002..	X	877 357
	.....1997..	X	632 526
33441200	Printed circuit boards (without inserted components) for electronic circuitry.....2002..	X	557
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	405 744
	.....1997..	X	399 463
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products) .....2002..	X	2 939 322
	.....1997..	X	3 102 433
33210000	Forgings .....2002..	X	1 377 006
	.....1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire) .....2002..	X	D
	.....1997..	X	N
33100097	Magnet wire .....2002..	X	4 545
	.....1997..	X	N
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	492 823
	.....1997..	X	N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	54 962
	.....1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	819
	.....1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	23 889
	.....1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	15 610
	.....1997..	X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic .....2002..	X	D
	.....1997..	X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.) .....2002..	X	608 874
	.....1997..	X	595 888

See footnotes at end of table.

**Table 7. Materials Consumed by Kind: 2002 and 1997—Con.**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336350	Motor vehicle transmission and power train parts manufacturing—Con.		
33593101	Current-carrying wiring devices.....2002..	X	162 760
	.....1997..	X	N
32500046	Other chemicals and allied products .....2002..	X	51 321
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	3 733 443
	.....1997..	X	5 295 959
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	700 683
	.....1997..	X	841 046

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.